

DML-2B-10G – DOUBLE BALANCED MIXER

TECHNICAL FEATURE

FEATURES

- 2 to 18 GHz
- +7 to +10 dBm LO
- Wideband IF
- Hermetic Package with Removable SMA

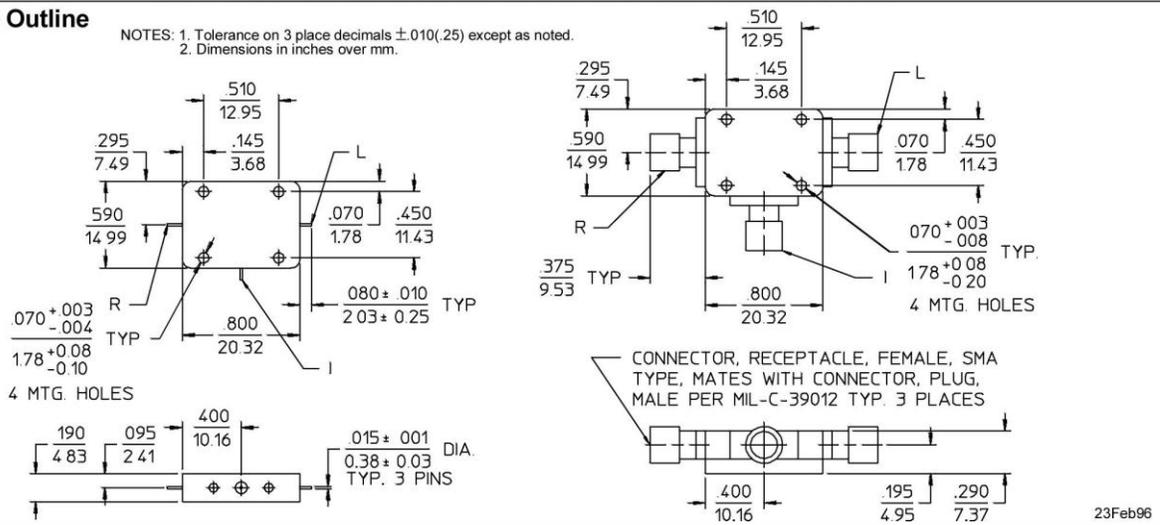
PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Frequency, GHz	LO Drive Range, dBm, Nom.	IF Range, GHz	Conversion Loss, SSB, dB		Isolation, L-R, dB		Isolation, L-X, dB		Isolation, R-X, dB		VSWR Typ.		
				Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	LO	RF	
DML-2B-10G	2 - 18	+7 to +10	DC - 1	8.5	5.5	20	40	18	30	18	30	2.0:1	2.0:1	
				1 - 1.5	9.0	6.5								
				1.5 - 2	10.0	7.5								

All specifications are as measured in a 50system, at nominal LO Power, in a down converter application.

Package Outline

NOTES: 1. Tolerance on 3 place decimals $\pm 0.10(,25)$ except as noted.
2. Dimensions in inches over mm.



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General Notes:

1. The DML-2B-10G Double Balanced Mixer covers the frequency range of 2 to 18 GHz and is optimized for low loss and broad RF/LO bandwidth. The hermetic removable SMA package is used for performance testing and reliability.
2. Merrimac offers a broad selection of Double Balanced Mixers ideal for a variety of signal processing functions from 20 kHz to 20 GHz and for applications from routine to very special.
3. All Merrimac mixers comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

GENERAL SPECIFICATIONS

Third Order Input Intercept: +13 dBm typ.
 Noise Figure: Within ± 1 dB of Conversion Loss
 1 dB Compression Point: 0 dBm min.
 (Referenced to Input)
 1 dB Desensitization Point: -2 dBm min.
 (Referenced to Input)
 Polarity Sense: Positive
 DC Offset Voltage: 5 mV typ.
 Weight with SMA, nom: 0.7 oz (20 g)
 Operating Temperature: -55° to +85°C

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